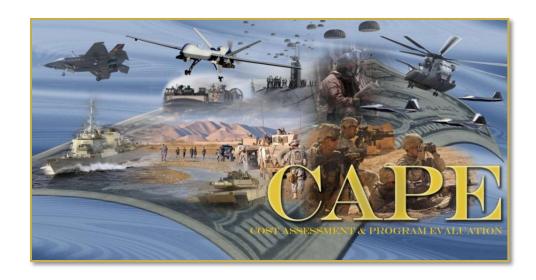
XML Overview and Conversion Instructions



July 1, 2014



XML Overview

 The following slides provide an overview of the transition to XML and step-by-step instructions to illustrate how files can be converted to XML:

- Overview of the XML Requirement
- DCARC-Approved XML Schemas
- cPet Desktop Conversion
- cPet Web Conversion



What is XML?

- A language used between IT/data systems
 - Not for humans
 - Open data tagging standard/syntax for data exchange
 - Like HTML (tagging standard for content in Web browser)

- Key XML Components
 - XML schema: Agreed to "grammar" of language
 - XML file: data package encoded to a schema
 - Secure data transmission method
 - Tools (e.g., a writer and a reader)



Why Use XML?

- Improve efficiency and reliability of data exchange
 - Old School
 - Send: Extract, prepare, print, snail-mail or fax
 - Receive: manual check and retype
 - Not So Old School
 - Send: Extract, prepare Excel/PDF, digital sign, secure transfer
 - Receive: semi-automated check, reformat, OCR
 - New School
 - · Send: Extract, prepare XML, digital sign, secure transfer
 - Receive: automated check, import to database, review / analyze



DCARC XML Requirement



OFFICE OF THE SECRETARY OF DEFENSE

1800 DEFENSE PENTAGON WASHINGTON, D.C. 20301-1800

MEMORANDUM FOR: SEE DISTRIBUTION

SUBJECT: Contractor Cost Data Reports (CCDRs) XML file Required on Future Submissions

The Defense Cost and Resource Center (DCARC) is migrating CCDR submissions from Microsoft Excel files to Extensible Markup Language (XML) files to facilitate storage of CCDR data in a structure that will streamline government CCDR data exploitation. XML data submission will reduce inefficiencies associated with redundant government efforts of manually extracting CCDR data out of Microsoft Excel files. In addition, this will reduce the amount of time required by industry to participate in the CCDR submission and validation process.

Effective July 1, 2014, all contractors, direct reporting subcontractors, and other entities reporting under the May 2011Data Item Descriptions (DI-FNCL-81565C, DI-FNCL-81566C, DI-FNCL-81567C), are required to submit CCDRs as stand-alone Excel-compatible files and as DCARC approved Extensible Markup Language (XML) files to the DCARC's secure Web site using the CSDR Submit-Review System. The DIDs already require the two formats. The DCARC is now enforcing the requirement for the XML file. The XML files can be generated automatically from the Excel-compatible files (or vice versa) with DCARC's cPet software tool. All validations starting July 1, 2014 will be conducted on the XML files. The validations will cover both content and format

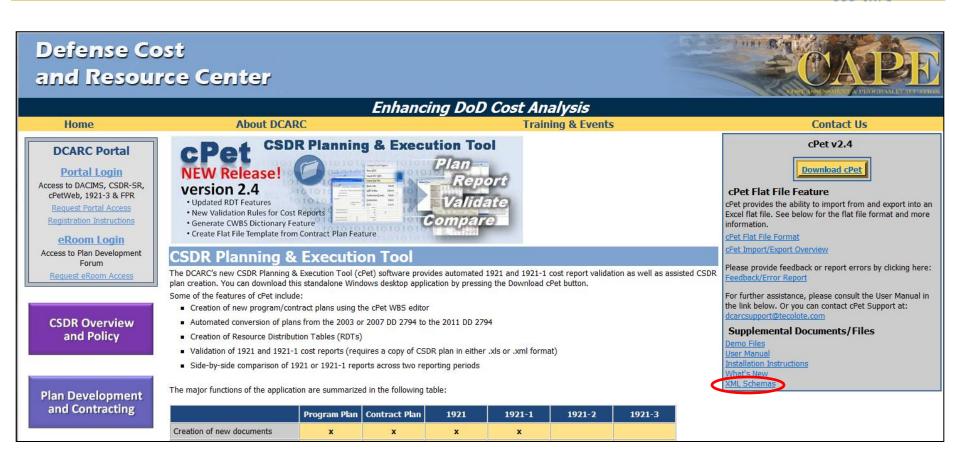
The DCARC provides cPet to organizations participating in the CCDR submission and validation process. This application, along with CCDR XML schemas, are available for download from the DCARC's website. DCARC office staff will answer questions and train your organization on how to use cPet to convert CCDR Microsoft Excel files to DCARC approved XML files (or vice versa) as requested.

To facilitate the DCARC migration to XML data submission, organizations submitting under prior versions of the May 2011 DIDs are asked to comply with this memorandum and submit CCDR XML files. The cPet application is able to handle CCDR forms dating back to 2007 DID versions. Supporting XML schemas dating back to 2007 are also available for download on the DCARC Web site.

- Using Existing
 CCDR Schemas
 from cPet
 - Continue submitting "formatted" CCDRs in Excel as supplemental files
 - Continue submitting to the CSDR
 Submit-Review website



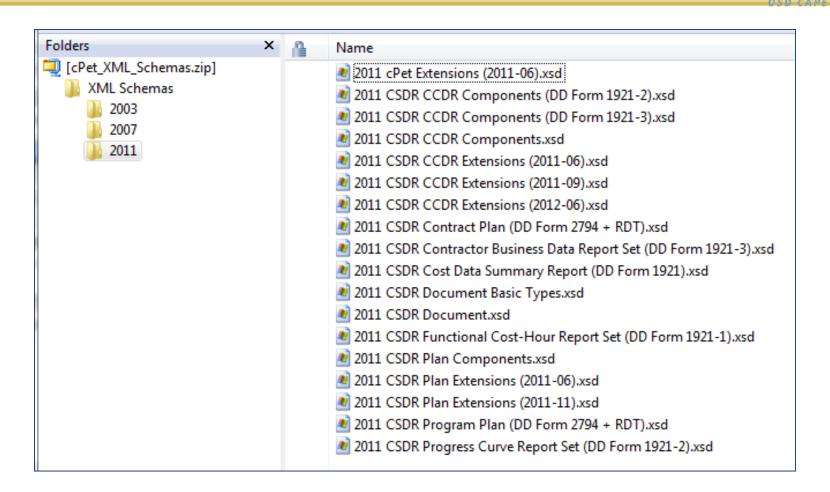
DCARC-Approved Schemas



Available on the DCARC public site with cPet



Current Schemas



Current family of schema CCDR files



Implementation

- Contractors who have the requirement to submit DD Forms 1921, 1921-1, and 1921-2 reports have the following options:
 - Write their own software to format XML files according to the published, DCARC-approved XML schemas
 - Use cPet Desktop to help generate DCARCapproved XML files from Excel files
 - Use cPet Web to help generate DCARCapproved XML files from Excel files



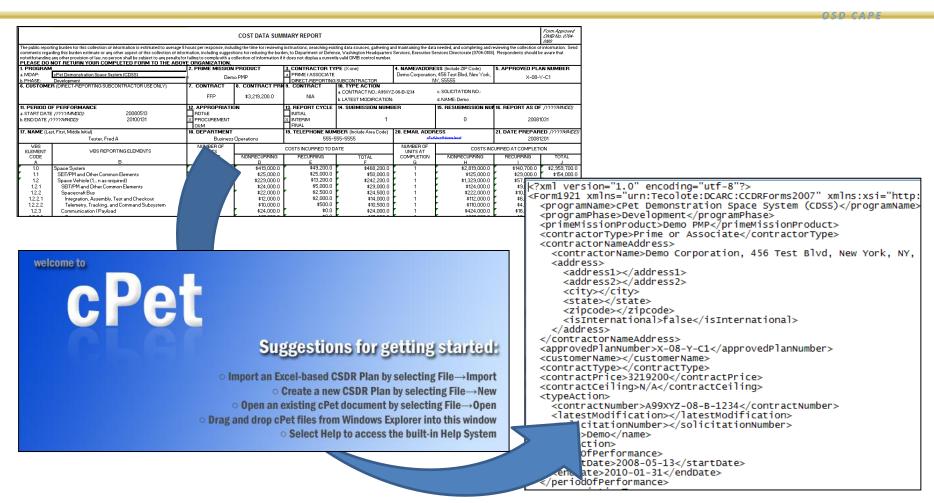
cPet Overview

- Key cPet Functions
 - Build & Edit CSDR Plans and RDT
 - Build, Edit, & Pre-validate CCDR Formats
 - Import and create Excel CCDR forms/templates
 - Import CCDR data from Excel "flat file"

cPet native file format is XML!



You're Already Doing It



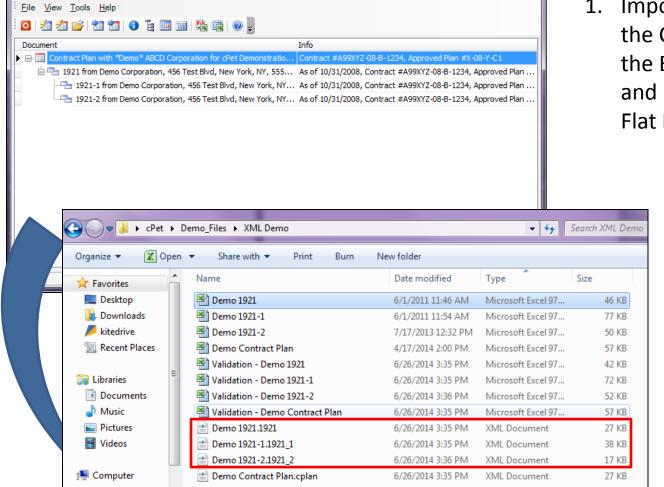
cPet defines XML standard for CCDR data



CSDR Planning & Execution Tool

cPet Desktop Conversion

_ D X



1. Import Excel version of the Contract Plan, then the Excel 1921, 1921-1, and 1921-2, or Excel Flat File.

2. cPet automatically creates XML versions of the original Excel files in their source folder directory.



cPet Web Conversion

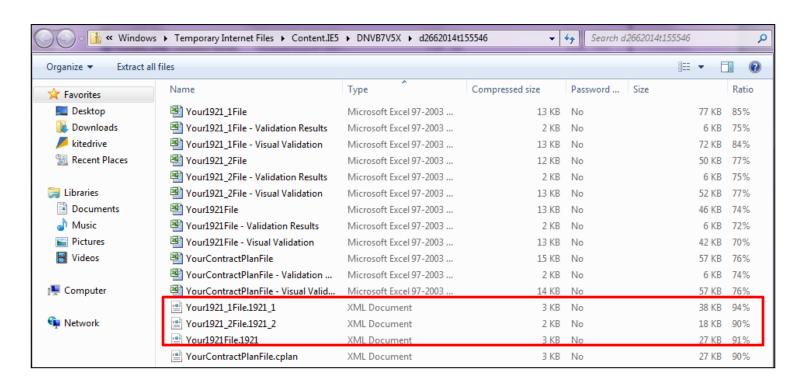


 Navigate to cPet Web, "MY CPET", and "Other cPet Functions".

 Browse and select the Excel Contract Plan, 1921, 1921-1, and 1921-2 reports.
 Then click "Convert".



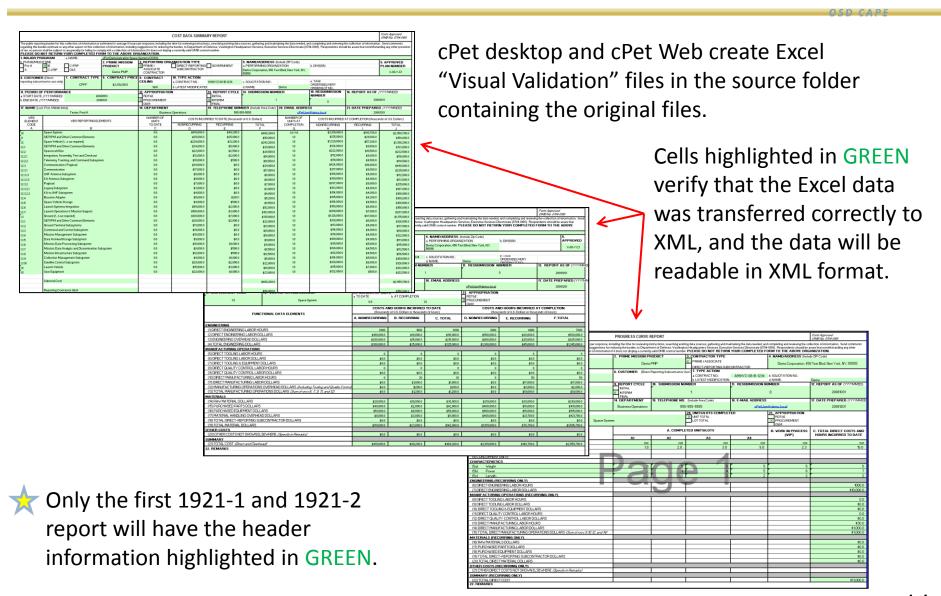
cPet Web Conversion, cont.



3. You will be prompted to "Open" a folder containing the original Excel files, as well as the converted XML files.



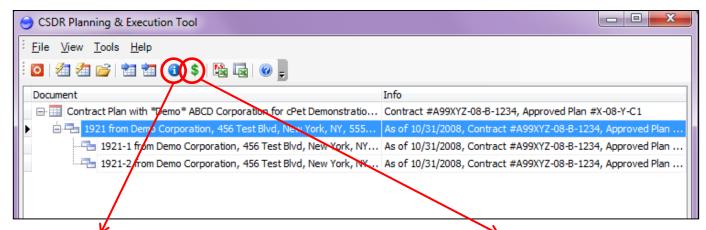
Visual Validation Files



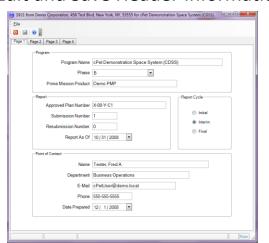


Troubleshooting

If the "Visual Validation" files contain cells that are not highlighted in GREEN, the files can be corrected within cPet Desktop:



Edit and Save Header Information



Edit and Save Cost Data

| WBS Element Code | Reporting Element | To Date | | | | At Completion | | | |
|------------------|-----------------------------------|------------|--------------|-----------|-----------|---------------|--------------|-----------|-------------|
| | | # of Units | Nonrecurring | Recurring | Total | # of Units | Nonrecurring | Recurring | Total |
| 1.0 | Space System | 0.0 | 419,000.0 | 49,200.0 | 468,200.0 | 1.0 / 1.0 | 2,819,000.0 | 140,700.0 | 2,959,700.0 |
| 1.1 | SEIT/PM and Other Common Ele | 0.0 | 25,000.0 | 25,000.0 | 50,000.0 | 1.0 | 125,000.0 | 29,000.0 | 154,000.0 |
| 1.2 | Space Vehicle (1n as required) | 0.0 | 229,000.0 | 13,200.0 | 242,200.0 | 1.0 | 1,329,000.0 | 57,200.0 | 1,386,200.0 |
| 1.2.1 | SEIT/PM and Other Common Ele | 0.0 | 24,000.0 | 5,000.0 | 29,000.0 | 1.0 | 124,000.0 | 9,000.0 | 133,000.0 |
| 1.2.2 | Spacecraft Bus | 0.0 | 22,000.0 | 2,500.0 | 24,500.0 | 1.0 | 222,000.0 | 10,500.0 | 232,500.0 |
| 1.2.2.1 | Integration, Assembly, Test and C | 0.0 | 12,000.0 | 2,000.0 | 14,000.0 | 1.0 | 112,000.0 | 6,000.0 | 118,000.0 |
| 1.2.2.2 | Telemetry, Tracking, and Comma | 0.0 | 10,000.0 | 500.0 | 10,500.0 | 1.0 | 110,000.0 | 4,500.0 | 114,500.0 |
| 1.2.3 | Communication / Payload | 0.0 | 24,000.0 | 0.0 | 24,000.0 | 1.0 | 424,000.0 | 16,000.0 | 440,000.0 |
| 1.2.3.1 | Communication | 0.0 | 17,000.0 | 0.0 | 17,000.0 | 1.0 | 217,000.0 | 8,000.0 | 225,000.0 |
| 1.2.3.1.1 | UHF Antenna Subsystem | 0.0 | 8,000.0 | 0.0 | 8,000.0 | 1.0 | 108,000.0 | 4,000.0 | 112,000.0 |
| 1.2.3.1.2 | KA Antenna Subsystem | 0.0 | 9,000.0 | 0.0 | 9,000.0 | 1.0 | 109,000.0 | 4,000.0 | 113,000.0 |
| 1.2.3.2 | Payload | 0.0 | 7,000.0 | 0.0 | 7,000.0 | 1.0 | 207,000.0 | 8,000.0 | 215,000.0 |
| 1.2.3.2.1 | Legacy Subsystem | 0.0 | 3,000.0 | 0.0 | 3,000.0 | 1.0 | 103,000.0 | 4,000.0 | 107,000.0 |
| 1.2.3.2.2 | KA to UHF Subsystem | 0.0 | 4,000.0 | 0.0 | 4,000.0 | 1.0 | 104,000.0 | 4,000.0 | 108,000.0 |
| 1.2.4 | Booster Adapter | 0.0 | 5,000.0 | 200.1 | 5,200.0 | 1.0 | 105,000.0 | 4,200.0 | 109,200.0 |
| 1.2.5 | Space Vehicle Storage | 0.0 | 4,000.0 | 500.0 | 4,500.0 | 1.0 | 104,000.0 | 4,500.0 | 108,500.0 |
| 1.2.6 | Launch Systems Integration | 0.0 | 50,000.0 | 2,000.0 | 52,000.0 | 1.0 | 150,000.0 | 6,000.0 | 156,000.0 |
| 1.2.7 | Launch Operations & Mission Sup | 0.0 | 100,000.0 | 3,000.0 | 103,000.0 | 1.0 | 200,000.0 | 7,000.0 | 207,000.0 |
| 1.3 | Ground (1n as required) | 0.0 | 128,000.0 | 7,000.0 | 135,000.0 | 1.0 | 1,128,000.0 | 47,000.0 | 1,175,000.0 |
| 1.3.1 | SEIT/PM and Other Common Ele | 0.0 | 20,000.0 | 2,000.0 | 22,000.0 | 1.0 | 120,000.0 | 6,000.0 | 126,000.0 |
| 1.3.2 | Ground Terminal Subsystems | 0.0 | 13,000.0 | 0.0 | 13,000.0 | 1.0 | 113,000.0 | 4,000.0 | 117,000.0 |
| 1.3.3 | Command and Control Subsystem | 0.0 | 14,000.0 | 0.0 | 14,000.0 | 1.0 | 114,000.0 | 4,000.0 | 118,000.0 |